

Kerr-McGee No. 18 NAV.
NW/NE Sec. 32, T36N, R30E

690

COUNTY Apache AREA Redrock, Az. LEASE NO. 14-20-0630-8823 Nav.

WELL NAME Kerr-McGee Corporation 18 Navajo

LOCATION NW/NE/4 SEC 32 TWP 36N RANGE 30E FOOTAGE 620' FNM & 2100' FEL

ELEV 7344 GR KB SPUD DATE 10-14-78 STATUS Prod OIL TOTAL 2954

CONTRACTOR Signal Oilfield Services, Inc. Coates Dril Co P&A 9/88

CASING SIZE	DEPTH	CEMENT	LINER SIZE & DEPTH	DRILLED BY ROTARY
<u>9 5/8"</u>	<u>302</u>	<u>250 lbs</u>		<input checked="" type="checkbox"/>
<u>7"</u>	<u>2890</u>	<u>250 lbs</u>		DRILLED BY CABLE TOOL <u>Completed in</u>
				PRODUCTIVE RESERVOIR
				INITIAL PRODUCTION <u>8430, 126 BW,</u> <u>23.1 MCF</u>

FORMATION TOPS	DEPTHS	SOURCE		REMARKS
		L.L.	E.L.	
Chinle	0			
Cocconino	570			
Hermosa	2380			
Blk. shale	2885			
Intrusive	2900			

ELECTRIC LOGS	PERFORATED INTERVALS	PROD. INTERVALS	SAMPLE LOG
GR-CBL-BTL- 1	OPEN hole		SAMPLE DESCRP.
CPDL-Gr.			SAMPLE NO. <u>1803</u>
			CORE ANALYSIS
			DSTs

REMARKS <u>Permit extended to 12-31-1978</u>	APP. TO PLUG
	PLUGGING REP.
	COMP. REPORT <input checked="" type="checkbox"/>

WATER WELL ACCEPTED BY _____

BOND CO. Firesman's Insurance Company per P/N 723 BOND NO. BND 188 98 10-528
DATE _____
BOND AMT. \$ 25,000. CANCELLED _____ ORGANIZATION REPORT X
FILING RECEIPT 1084 LOC. PLAT X WELL BOOK X PLAT BOOK X
API NO. 02-001-20239 DATE ISSUED 4-28-78 DEDICATION N/2 of NE/4

PERMIT NUMBER 690

SEP 1 1966

4/82

- *9-7-88 Set CIBP at 2820'. Tag CIBP at 2820'. Circ hole w/9.2#/gal mud. Pressure test casing to 500 psi for 30 min - held OK.
- 9-8-88 Spot 25 sxs Class "H" cement on top of CIBP (2704-2820'). Perf 4 holes at 350'. Establish Circ. Circ and squeeze 175 sxs Class "H". Circ 2 bbls cement out 9-5/8" surface casing.
- 9-9-88 Tag TOC at 80'. Pump 25 sxs Class "H" from 80' to surface in the 7" casing. Weld cap on 9-5/8" casing. Weld on P&A marker.
- 9-12-88 Restore & rehabilitate location.
thru
9-13-88

Form 3160-5
(November 1983)
(Formerly 9-331)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPlicate
(Other Clauses apply
verse sides)

Form approved.
Budget Bureau No. 1004-0135
Expires August 31, 1985

5. LEASE DESIGNATION AND SERIAL NO.

14-20-0603-8823

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

Navajo

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Navajo

9. WELL NO.

18

10. FIELD AND POOL, OR WILDCAT

Dineh-Bi-Keyah (Hermosa)

11. SEC., T., R., M., OR BLK. AND
SURVEY OR AREA

Sec. 32, T36N-R30E

12. COUNTY OR PARISH

Apache

13. STATE

AZ

SUNDRY NOTICES AND REPORTS ON WELLS
(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL ☒ GAS WELL ☐ OTHER ☐

2. NAME OF OPERATOR

Kerr-McGee Corporation

3. ADDRESS OF OPERATOR

U.S. Onshore Region, Box 25861, Oklahoma City, OK 73125

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.
See also space 17 below.)
At surface

620' FNL & 2100' FEL

14. PERMIT NO.

690 AZ

15. ELEVATIONS (Show whether DT, RT, GR, etc.)

7344' GR

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON*

CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

REPAIRING WELL

ALTERING CASING

ABANDONMENT*

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

9-7-88 Set CIBP at 2820'. Tag CIBP at 2820'. Circ hole w/9.2#/gal mud.
Pressure test casing to 500 psi for 30 min - held OK.

9-8-88 Spot 25 sxs Class "H" cement on top of CIBP (2704-2820').
Perf 4 holes at 350'. Establish circ. Circ and squeeze 175 sxs
Class "H". Circ 2 bbls cement out 9-5/8" surface csg.

9-9-88 Tag TOC at 80'. Pump 25 sxs Class "H" from 80' to surface in the
7" casing. Weld cap on 9-5/8" casing. Weld on P&A marker.

9-12-88 Restore & rehabilitate location.
thru
9-13-88

18. I hereby certify that the foregoing is true and correct

SIGNED D. B. Bunas

TITLE Analyst II

DATE 9-14-88

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

APPLICATION TO PLUG AND ABANDON

JUL 5 1988

FIELD Dineh-Bi-Keyah

OPERATOR Kerr-McGee Corporation ADDRESS U.S. Onshore Region, Box 25861, OKC, OK
Federal, State or Indian Lease Number 14-20-0603-8823 Navajo WELL NO. 18 73125
or Lessor's Name if Fee Lease

LOCATION 620' ENL & 2100' EEL, Sec. 32, T36N-R30E, Apache County, Arizona

TYPE OF WELL Oil TOTAL DEPTH 2954'
(Oil, Gas or Dry Hole)

ALLOWABLE (If Assigned) N/A

LAST PRODUCTION TEST OIL 12 (Bbls.) WATER 252 (Bbls.)
GAS 3 (MCF) DATE OF TEST 10-17-84

PRODUCING HORIZON Hermosa PRODUCING FROM 2890 TO 2954

1. COMPLETE CASING RECORD.

9-5/8" 32.3# K55 ST&C @ 302'. Cemented w/250 sxs.

7" 20# K55 ST&C @ 2890'. Cemented w/250 sxs.

2. FULL DETAILS OF PROPOSED PLAN OF WORK.

See attached plugging procedure and current well schematic.

DATE COMMENCING OPERATIONS July 11, 1988NAME OF PERSON DOING WORK Unknown at this time ADDRESS _____

Signature

G. Bunas
Analyst IITitle U.S. Onshore Region, Box 25861
Address Oklahoma City, OK 73125Date June 30, 1988

Date Approved 7/6/88
STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION
By: R. A. Ybarra

STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION
Application to Plug and Abandon
File Two Copies

Form No. 9

Permit No. 690

4/82

PROCEDURE
NAVAJO #16

Location: 620' FNL & 2100' FEL
Section 32 T36N, R30E
Apache County, Arizona

	RKB - GL 11'		
<u>Surface:</u>	<u>Size</u> 9 5/8"	<u>Depth</u> 302'	<u>Cemented with</u> 250 sacks Class "B"
<u>Production:</u>	7"	2,890'	250 sacks Class "B"

Proposed Plugs:

1.	2850' - 2734'	25 sx, CIBP	Inside 7" casing
2.	350' - 218'	50 sx	Inside - Outside 7" casing
3.	65' - 5'	25 sx	Inside - Outside 7" casing

1. Notify Bureau of Land Management and Arizona Oil and Gas Conservation Commission of plugging operations.
2. RD and move pumping unit to yard.
3. MI and RU Pulling unit. NU BOP's.
4. Move 2 3/8" work string from yard to well location.
5. PU and TIH with 7" CIBP on 2 7/8" tbg and set CIBP at \pm 2850' RKB. Circulate hole with 9.2#/gal. mud.
6. MI and RU cementing company.
7. Spot a 25 sack class "H" cement plug on top of CIBP from 2850' - 2734' RKB. Displace cement out of tbg with 9.2#/gal. mud. TOOH with tbg. Stand 350' of tubing in derrick. Lay rest down.
8. MI & RU wireline unit. TIH with 4" casing gun and perforate 4 holes in 7" casing at \pm 350'. TOOH with 4" casing gun. (22 gram charges with .5" entry hole).

U. S. Onshore Oper.

MAY 5 1983

E & P DIV.

9. Establish circulation down 7" casing with 9.2#/gal. mud. Mix and pump 50 sacks of class "H" cement (balanced plug). Displace cement using 9.2# mud. Top of cement @ \pm 220' inside and outside of 7" casing. WOC.
10. TIH with 2 7/8" tbg and tag top of plug. TOOH and lay down 2 7/8" tbg.
11. Spot 25 sack Class "H" cement plug from 50' - 5' inside and outside of 7" casing. A permanent monument must be centered in the wellbore. Monument must be labeled with the operator's name, well name and number, legal location, and lease number.
12. Weld cap on casing.
13. Clean, level, and reseed location.

NOTE: Obtain BLM and Arizona Corporation Commission plugging permits prior to plugging Navajo No. 18.

OK
5-6-88

RAS-007/DLY16

STATE OF ARIZONA
OIL AND GAS CONSERVATION COMMISSION

PERMIT 690

REPORT ON PROPOSED OPERATIONS

Kerr-McGee Corporation
Exploration and Production Division
P. O. Box 25861
Oklahoma City, OK 73125

Phoenix, ARIZONA
July 6, 1988

Your proposal to plug and abandon well No. 18 Navajo,
A.P.I. No. 02-001-20239, Section 32, T. 36N, R. 30E, G.S.R. B. & M.,
Dineh-Bi-Keyah field, aren, Hermosa pool,
Apache County, dated 6/30/88, received 7/5/88 has been examined in conjunction with records
filed in this office.

THE PROPOSAL IS APPROVED PROVIDED:

1. Adequate blowout prevention equipment is installed, tested, and maintained in good working condition throughout the abandonment of the well.
2. All unplugged intervals shall be filled with heavy drilling mud.
3. THIS COMMISSION IS NOTIFIED:
 - a. To witness pumping of cement plug on top of the CIBP at \pm 2850'.
 - b. To witness cement squeezing operations at \pm 350'.
 - c. To witness placing of the surface plug.

BOND Blanket

D. J. BRENNAN, Executive Director

By R. A. Ybana
Enforcement Director

A copy of this report and the proposal must be posted at the well site prior to commencing operations.

Records for work done under this permit are due within 30 days after the work has been completed or the operations have been suspended.

DINEH-BI-KEYAH FIELD

OIL SPILL REPORT

On May 31, 1984, Butch Rice, with Kerr-McGee in Amarillo, Texas, called this office to report an oil spill, as follows:

Date of Occurrence: May 28, 1984 6:00 p.m.

Nature of Spill: Pipeline Break

Cause: Earth movement put crimp on 6" line

Amount of Spill: 15 barrels of crude

Property Damage: Crude got into wash near well #18 in Sec. 32 and some of the crude was carried approximately 4,500 feet from point of occurrence.

Agencies Notified: National Response Center, Washington, D.C.;
BLM offices in Farmington, NM

Names of People (BLM) Notified: Marcia Petta, Environment; Lorraine Thomas, Land Administration; and Arlene Luther, Cleanup Supervisor.

Status of Cleanup: Kerr-McGee crews doing work - 90% complete (as of 5-31-84)

Brief Narrative:

This field (Dineh-bi-Keyah) is located in the Navajo Reservation in Northeastern Arizona (Apache County). The terrain is rugged with elevations up to 8,000 feet, and is dissected by numerous washes. A 6" oil-gathering line was crimped when a landslide occurred on May 28, 1984, spilling approximately 15 barrels of crude near producing well #18 Navajo in Sec. 32-36N-30E. The crude spilled into a nearby wash (unnamed) and was carried by the water (snow melt) some distance downstream. A collector pit in the wash failed as it was silted over by the recent runoff and some of the crude found its way about 4,500 feet from point of occurrence. Indians use some of this water for watering their stock. There is a ^{small} amount of crude still in the water and until final cleanup Kerr-McGee will provide these people with fresh water. As of May 31, 1984, 90% of the cleanup has been accomplished. Oil-saturated soil and debris will be trucked out and replaced with clean soil. Arlene Luther, with BLM, is supervising cleanup operations. A copy of the final cleanup report will be sent to the Oil and Gas Conservation Commission.

I notified Arizona Department of Health Services, as listed in the Arizona Contingency Plan, and gave my report to Ted Blackburn with Waste Control. He related to me that he had been informed of the spill by EPA (Region 9) on May 28, 1984, and, in turn, he reported the incident to Will Gilbert with Water Quality Control Commission.

R. A. Ybarra

June 1, 1984

WELL COMPLETION OR RECOMPLETION REPORT AND WELL LOG

DESIGNATE TYPE OF COMPLETION:

New Well ☒ Work-Over ☐ Deepen ☐ Plug Back ☐ Same Reservoir ☐ Different Reservoir ☒ Oil ☐ Gas ☐ Dry ☐

DESCRIPTION OF WELL AND LEASE

Operator Kerr-McGee Corporation		Address Box 250; Amarillo, Texas 79189	
Federal, State or Indian Lease Number or name of lessor if fee lease 14-20-0603-8823		Well Number 18	Field & Reservoir Dineh-Bi-Keyah
Location 620' FNL, 2100' FEL		County Apache	
Sec. TWP-Range or Block & Survey Sec 32 - T36N - R30E G & SRM Survey			
Date spudded 10-14-78	Date total depth reached 11-1-78	Date completed, ready to produce 11-29-78	Elevation (DF, RKB, RT or Gr.) 7344 GR feet
Total depth 2954	P.B.T.D. ---	Single, dual or triple completion? Single	Elevation of casing hd. flange --- feet
Producing interval (s) for this completion 2890 - 2954		Rotary tools used (interval) 0-2890	Cable tools used (interval) 2890 - 2954
Was this well directionally drilled? No	Was directional survey made? No	Was copy of directional survey filed? ---	Date filed ---
Type of electrical or other logs run (check logs filed with the commission) Gr - CBL, BTL, GR - CDFL			Date filed

CASING RECORD

Casing (report all strings set in well—conductor, surface, intermediate, producing, etc.)

Purpose	Size hole drilled	Size casing set	Weight (lb./ft.)	Depth set	Sacks cement	Amt. pulled
Surface	12 1/4	9 5/8	32 & 36	302	250	---
Production	8 3/4	7"	20	2890	250	---

TUBING RECORD

LINER RECORD

Size	Depth set	Packer set at	Size	Top	Bottom	Sacks cement	Screen (ft.)
2 7/8 in.	2938 ft.	N/A ft.	---	---	---	---	---

PERFORATION RECORD

ACID, SHOT, FRACTURE, CEMENT SQUEEZE RECORD

Number per ft.	Size & type	Depth Interval	Amt. & kind of material used	Depth Interval
Open Hole		2890 - 2954	Frac: 55,100gals gelled lease crude, 92,000# 10-20 sd	2890 - 2954

INITIAL PRODUCTION

Date of first production 11-29-78		Producing method (Indicate if flowing, gas lift or pumping—if pumping, show size & type of pump): Pumping 2 1/2" x 2" x 16' RWBC				
Date of test 12-6-78	Hrs. tested 24	Choke size N/A	Oil prod. during test 84 bbls.	Gas prod. during test 23.1 MCF	Water prod. during test 126 bbls.	Oil gravity * API (Corr)
Tubing pressure ---	Casing pressure ---	Cal'ated rate of Production per 24 hrs. ---	Oil 84 bbls.	Gas 23.1 MCF	Water 126 bbls.	Gas-oil ratio 275

Disposition of gas (state whether vented, used for fuel or sold):

Vented

CERTIFICATE: I, the undersigned, under the penalty of perjury, state that I am an Engineering Assistant of the Kerr-McGee Corporation (company), and that I am authorized by said company to make this report; and that this report was prepared under my supervision and direction and that the facts stated therein are true, correct and complete to the best of my knowledge.

Date 12-12-78

Signature

Larry R. Bell

RECEIVED

DEC 14 1978

Permit No. 690

O & G CONS. COMM.

STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION

Well Completion or Recompletion Report and Well Log

Form No. 4

File One Copy

(Complete Reverse Side)

DETAIL OF FORMATIONS PENETRATED

Formation	Top	Bottom	Description*
Chinle	0	570	Red shale w/thin stringers of sand
Coconino	570	1290	Massive sandstone w/shaley stringers
Hermosa	2380		Gray, dense limestone w/shale stringers
Black Shale	2885	2900	Black Shale
Intrusive	2900	TD	Syenite

* Show all important zones of porosity, detail of all cores, and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries.

INSTRUCTIONS:

Attach drillers log or other acceptable log of well.

This Well Completion or Recompletion report and well log shall be filed with the State of Arizona Oil & Gas Conservation Commission not later than thirty days after project completion.

Form No. 4

GAS-OIL RATIO TEST REPORTS

Filed under Oil-Gas Ratio Tests, Dineh-bi-Keyah Field
in cabinet in office of Enforcement Director

Form 9-331
Dec. 1973

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil well ☒ gas well ☐ other ☐

2. NAME OF OPERATOR
Kerr-McGee Corporation

3. ADDRESS OF OPERATOR
P. O. Box 250, Amarillo, Texas 79189

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: **620' FNL & 2100' FEL**
AT TOP PROD. INTERVAL:
AT TOTAL DEPTH:

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:

TEST WATER SHUT-OFF ☐

FRACTURE TREAT ☐

SHOOT OR ACIDIZE ☐

REPAIR WELL ☐

PULL OR ALTER CASING ☐

MULTIPLE COMPLETE ☐

CHANGE ZONES ☐

ABANDON* ☐

(other) **Weekly Report**

SUBSEQUENT REPORT OF:

☐

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Form Approved
Budget Bureau No. 42-R1424

5. LEASE
14 - 20 - 0603 - 8823

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
Navajo

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Navajo

9. WELL NO.
18

10. FIELD OR WILDCAT NAME
Dineh-Bi-Keyah

11. SEC., T., R., M. OR BLK. AND SURVEY OR AREA
**Sec. 32, T36N, R30E
G & S RM Survey**

12. COUNTY OR PARISH
Apache

13. STATE
Arizona

14. API NO.

15. ELEVATIONS (SHOW DE KDB AND WD)
7344 GR

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Pumping back frac load

Report as of 12-4-78

RECEIVED

DEC 6 1978

D & G CONS. COMM.

Subsurface Safety Valve: Manuf. and Type

18. I hereby certify that the foregoing is true and correct

Original Signed By **Larry R. Bell** TITLE **Engineering Asst.** DATE **December 4, 1978**

SIGNED **Larry R. Bell**

(This space for Federal or State office use)

APPROVED BY
CONDITIONS OF APPROVAL, IF ANY:

TITLE

DATE

690

Form 9-331
(May 1963)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

Form approved
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

14-20-0603-8823

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

Navajo

7. UNIT AGREEMENT NAME

Navajo

8. FARM OR LEASE NAME

Navajo

9. WELL NO.

18

10. FIELD AND POOL, OR WILDCAT

Dineh-Bi-Keyah

11. SEC. T. R. M. OR ALY. AND

Sec 32, T36N, R30E

12. COUNTY OR PARISH, 13. STATE

C & S RM Survey

Apache Arizona

SUNDRY NOTICES AND REPORTS ON WELLS
(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT" for such proposals.)

1. OIL WELL ☒ GAS WELL ☐ OTHER ☐

2. NAME OF OPERATOR

Kerr-McGee Corporation

3. ADDRESS OF OPERATOR

P. O. Box 250, Amarillo, Texas 79189

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*
See also space 17 below.)
At surface

620' FNL & 2100' FEL

14. PERMIT NO.

State No. 690

15. ELEVATIONS (Show whether DF, RT, CR, etc.)

7344 GR

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON*

CHANGE PLANS

SUBSEQUENT REPORT OF

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

Weekly Report

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Pumping back frac load

Report as of 11-17-78

18. I hereby certify that the foregoing is true and correct.

SIGNED Larry R. Bell

Larry R. Bell

TITLE Engineering Assistant

DATE November 17, 1978

(This space for Federal or State office use)

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

TITLE

DATE

RECEIVED

NOV 19 1978

O & G CONS. COMM.

*See Instructions on Reverse Side

SUNDY NOTICES AND REPORTS ON WELLS

1. Name of Operator KERR-McGEE CORPORATION

2. Oil WELL ☒ GAS WELL ☐ OTHER ☐ (Specify) _____

3. Well Name NAVAJO No. 18

Location 620' FNL, 2100' FEL

Sec. 32 Twp. 36 N Rge. 30 E County Apache Arizona.

4. Federal, State or Indian Lease Number, or lessor's name if fee lease 14 - 20 - 0603 - 8823

5. Field or Pool Name Dineh - Bi - Keyah

6. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	MONTHLY PROGRESS <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	DIRECTIONAL DRILL <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	PERFORATE CASING <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(OTHER) <u>Weekly Progress</u>	ABANDONMENT <input checked="" type="checkbox"/>

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

7. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Drilled 8 3/4" hole to 2890

Ran 70 jts. of 7" 20# K-55 casing - set at 2890'. Cemented csg. with 250 sks Class "B" with 1/4#/sk Flocele

Drilled out cement w/cable tool to 2881'

Ran Gamma-Ray CBL

Drilled out rest of cement and 64' of formation

Ran Base Temp. Log

Fracture treated well as follows:

Pumped 8,000 gals. gelled lease crude pad

Pumped 10,000 gals. gelled lease crude w/1 ppg 10-20 sand

Pumped 14,000 gals. gelled lease crude w/2 ppg 10-20 sand

Pumped 18,000 gals. gelled lease crude w/3 ppg 10-20 sand

Pumped 5,100 gals. flush

I.S.I.P.: 700 psi; A.I.R.: 54 BPM; A.I.P.: 530 psi

Ran temp survey - most of fluid taken @ 2900'

R. U. & TIH w/sand pump - cleaned out 18' of fill-up

Ran tbg. set @ 2924' RKB swabbed well - 2 runs recovered no fluid

Ran Tandem pressure bomb

Lowered tbg. mud anchor @ 2938' ran pump and rods. Began pumping back frac load.

Report as of 11-11-78

8. I hereby certify that the foregoing is true and correct.

Signed Larry R. Bell Larry R. Bell Title Engineering Assistant Date November 14, 1978

STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION
Sundry Notices and Reports On Wells
File Two Copies

Permit No. 690

Form No. 25

SUNDRY NOTICES AND REPORTS ON WELLS

1. Name of Operator KERR-McGEE CORPORATION
 2. Oil WELL ☒ GAS WELL ☐ OTHER ☐ (Specify) _____
 3. Well Name NAVAJO # 18
 Location 620 FNL, 2100' FEL
 Sec. 32 Twp. 36N Rge. 30E County Apache Arizona.
 4. Federal, State or Indian Lease Number, or lessor's name if fee lease 14 - 20 - 0603 - 8823

5. Field or Pool Name Dineh-Bi-Keyah

6. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	MONTHLY PROGRESS <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	DIRECTIONAL DRILL <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	PERFORATE CASING <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>		ABANDONMENT <input type="checkbox"/>
(OTHER) _____		(OTHER) <u>Weekly Progress</u>	<input checked="" type="checkbox"/>

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

7. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Drilling ahead at 2672 as of 10-27-78.

8. I hereby certify that the foregoing is true and correct.

Signed Larry R. Bell Title Engineering Asst. Date Nov. 1, 1978

Permit No. 690

STATE OF ARIZONA
 OIL & GAS CONSERVATION COMMISSION
 Sundry Notices and Reports On Wells
 File Two Copies
 Form No. 25

SUNDRY NOTICES AND REPORTS ON WELLS

1. Name of Operator KERR-McGEE CORPORATION

2. Oil Well ☒ GAS Well ☐ OTHER ☐ (Specify) _____

3. Well Name NAVAJO # 18

Location 620' FNL, 2100' FEL

Sec. 32 Twp. 36N Rge. 30E County Apache Arizona.

4. Federal, State or Indian Lease Number, or lessor's name if fee lease 14 - 20 - 0603 - 8823

5. Field or Pool Name Dineh-Bi-Keyah

6. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	MONTHLY PROGRESS <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	DIRECTIONAL DRILL <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	PERFORATE CASING <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(OTHER) <u>Spud Date</u>	ABANDONMENT <input checked="" type="checkbox"/>

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

7. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Spudded well at 3:00 A. M. 10-14-78.

Ran 7 jts. of 9 5/8" 32# and 36# K-55 set at 302'

Cemented with 250 sks Class "B" with 2% CaCl

Drilled 8 3/4" hole to 1372 as of 10-19-78

8. I hereby certify that the foregoing is true and correct.

Signed Larry R. Bell Larry R. Bell Title Engineering Assistant Date Nov. 1, 1978

Permit No. 690

STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION
Sundry Notices and Reports On Wells
File Two Copies
Form No. 21

APPLICATION FOR PERMIT TO DRILL OR RE-ENTER

APPLICATION TO DRILL ☒

RE-ENTER OLD WELL ☐

Kerr-McGee Corporation
NAME OF COMPANY OR OPERATOR

P. O. Box 250 Amarillo Texas 79189
Address City State

Signal Oilfield Service, Inc.
Drilling Contractor

1200 Security Life Building, Denver, Colorado 80202
Address

DESCRIPTION OF WELL AND LEASE

Federal, State or Indian Lease Number, or if fee lease, name of lessor	Well number	Elevation (ground)
14-20-0603-8823 Navajo	18	7,344
Nearest distance from proposed location to property or lease line:	Distance from proposed location to nearest drilling, completed or applied—for well on the same lease:	
2,100 feet	1,650 feet	
Number of acres in lease:	Number of wells on lease, including this well, completed in or drilling to this reservoir:	
2,533	14	
If lease, purchased with one or more wells drilled, from whom purchased:	Name	Address
Well location (give footage from section lines)	Section—township—range or block and survey	Dedication (Comply with Rule 105)
620' FNL & 2100' FEL	Sec 32, T36N, R30E, G&SRM	N/2 of NE/4 Sec 32
Field and reservoir (if wildcat, so state)	County	
Dineh-Bi-Keyah	Hermosa	Apache
Distance, in miles, and direction from nearest town or post office		
9 miles Southwest of Red Rock, Arizona		
Proposed depth:	Rotary or cable tools	Approx. date work will start
3,250'	Rotary to 2910'	May 20, 1978
Bond Status	Organization Report	Filing Fee of \$25.00
Blanket Bond	On file <input checked="" type="checkbox"/> Or attached	Attached <input checked="" type="checkbox"/> yes
Amount		
Remarks:		
Development Well		

CERTIFICATE: I, the undersigned, under the penalty of perjury, state that I am the District Manager-Drilling of the Kerr-McGee Corporation (company), and that I am authorized by said company to make this report; and that this report was prepared under my supervision and direction and that the facts stated therein are true, correct and complete to the best of my knowledge.

RECEIVED

APR 3 1978

O & G CONS. COMM.

Signature C. J. Breeden

Date March 30, 1978

Permit Number: 690
Approval Date: 4-28-78
Approved By: W. E. Ode

Notice: Before sending in this form be sure that you have given all information requested. Much unnecessary correspondence will thus be avoided.

Form No. 3

STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION
Application to Drill or Re-enter
File Two Copies

API NO. 02-001-20139

(Complete Reverse Side)



PERMIT TO DRILL

This constitutes the permission and authority from the
OIL AND GAS CONSERVATION COMMISSION,
STATE OF ARIZONA,

To: Kerr-McGee Corporation
(OPERATOR)

to drill a well to be known as

Navajo No. 18
(WELL NAME)

located 620 FNL & 2100' FEL (NW/NE/4)

Section 32 Township 36N Range 30E, Apache County, Arizona.

The NE 1/2 of NE/4 of said
Section, Township and Range is dedicated to this well.

Said well is to be drilled substantially as outlined in the attached Application and must be drilled
in full compliance with all applicable laws, statutes, rules and regulations of the State of Arizona.

Issued this 28th day of April, 19 78.

OIL AND GAS CONSERVATION COMMISSION

By

W. E. Allen
EXECUTIVE SECRETARY

PERMIT N° 690

RECEIPT NO. 1084

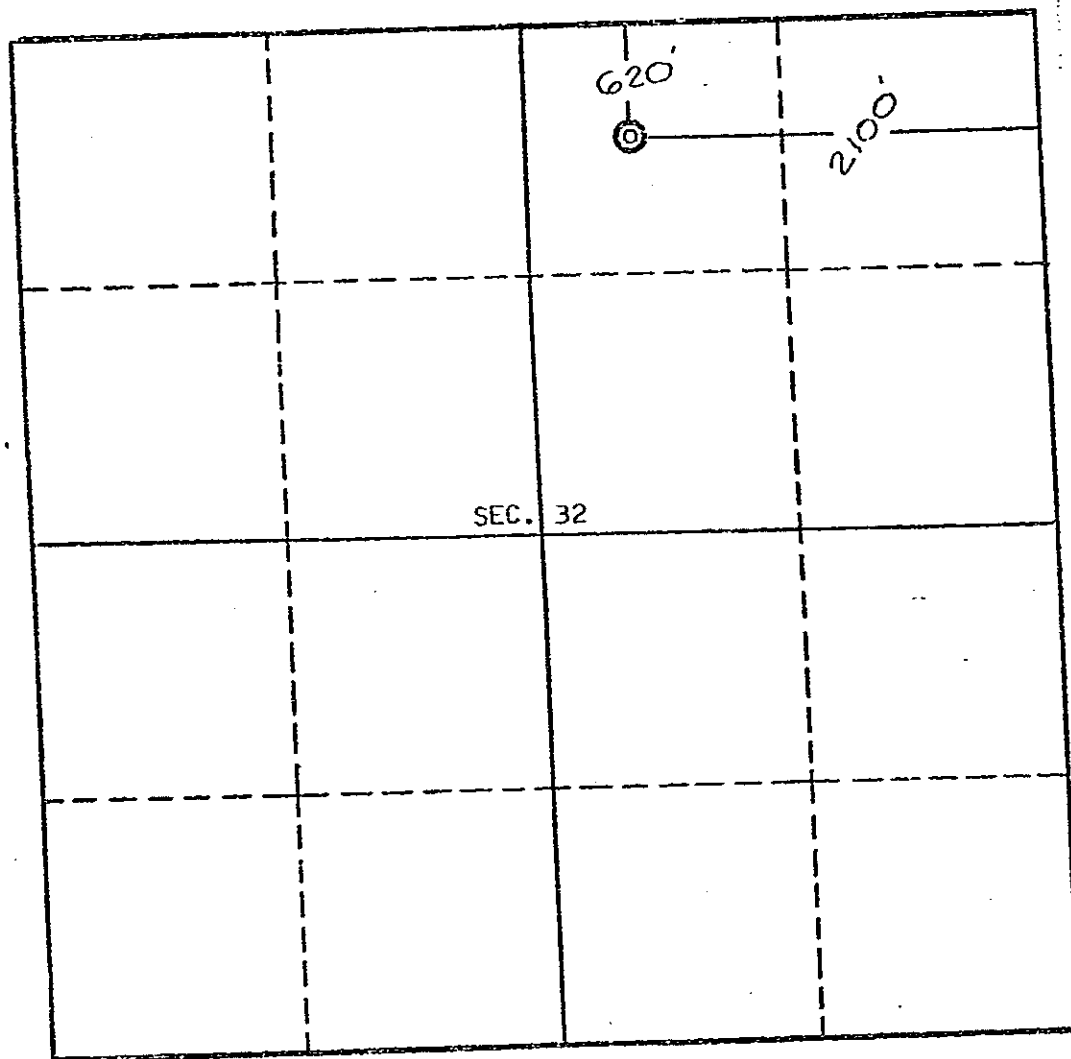
API No. 02-001-20239

State of Arizona
Oil & Gas Conservation Commission
Permit to Drill

FORM NO. 27

SAMPLES ARE REQUIRED

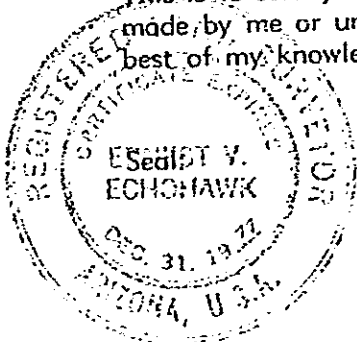
Company Kerr-McGee Corporation
Well Name & No. NAVAJO No. 18
Location 620 feet from the North line and 2100 feet from the East line.
Sec. 32, T. 36 N., R. 30 E., G. & S. R. M., County Apache, Arizona
Ground Elevation 7344



Scale, 1 inch = 1,000 feet

Surveyed October 12, 1977

This is to certify that the above plat was prepared from field notes of actual surveys made by me or under my supervision and that the same are true and correct to the best of my knowledge and belief.



Ernest V. Echohawk
Ernest V. Echohawk
Registered Land Surveyor
Arizona Registration No. 2311

RECEIVED

APR 9 1978

O & G CONS. COMM.



SEP 21 1988

G & S LINE, OMAHA

PLEASE REPLY TO

EXPLORATION AND PRODUCTION DIVISION
U. S. ONSHORE REGION
P. O. BOX 25861
OKLAHOMA CITY, OKLAHOMA 73125

PHONE
405 848-9750

September 16, 1988

State of Arizona
Oil & Gas Conservation Commission
Suite 190
3110 N. 19th Avenue
Phoenix, AZ 85015

Re: Navajo #18
Dineh-BI-Keyah Field
Apache County, Arizona

Gentlemen:

Attached is the "Plugging Record" for the above well. Also attached is a copy of the "Subsequent Report of Abandonment" which was filed with the BLM.

If additional information is required, please advise.

Sincerely,

KERR-MCGEE CORPORATION

Gaylan Bunas
Analyst II

W. A. Walz
Engineering Manager

GGB365:11s03

xc: I. Geddle/CFR
CAR/WRF
HHR
GGB
CF



KERR-MCGEE CORPORATION

KERR-MCGEE CENTER • OKLAHOMA CITY, OKLAHOMA 73125

JUL 5 1988

G & G CONS. COMM.

PLEASE REPLY TO

EXPLORATION AND PRODUCTION DIVISION
U.S. ONSHORE REGION
P.O. BOX 25361
OKLAHOMA CITY, OKLAHOMA 73125

PHONE

405 842-9750

June 30, 1988

State of Arizona
Oil & Gas Conservation Commission
Suite 190
3110 N. 19th Avenue
Phoenix, AZ 85015

Re: Navajo #18
Dineh-Bi-Keyah Field
Apache County, Arizona

Gentlemen:

Attached in duplicate is an "Application to Plug and Abandon" for the above well. If additional information is required, please advise.

Sincerely,

KERR-MCGEE CORPORATION

Gaylan Bunas

Gaylan Bunas
Analyst II

W. A. Walz

W. A. Walz
Engineering Manager

WAW:GGB327:11s01

xc: I. Geddie/CFR
S. W. District
CAR/WRF
GGB
CF



KERR-McGEE CORPORATION

626 AMARILLO PETROLEUM BUILDING
P. O. BOX 250 • AMARILLO, TEXAS 79105

RECEIVED

OCT 19 1978

D & G CONS. COMM.

PHONE
806 376-7256

October 13, 1978

State of Arizona
Arizona Oil and Gas Conservation Commission
1645 West Jefferson
Suite 420
Phoenix, Arizona 85007

Attention: W. E. Allen

Dear Mr. Allen:

Enclosed please find two (2) copies of Form No. 25, "Sundry Notices and Reports on Wells," for Kerr-McGee Corporation's Navajo No. 19, 21, and 24, located in Apache County, Arizona, Dineh-Bi-Keyah Field. Two copies of an "Application for Permit to Drill" for the Navajo No. 20 are also enclosed.

Also, Kerr-McGee Corporation respectfully requests another extension on the "Permit to Drill" for the Navajo No. 18. This well will be spudded the week of 15-21, October 1978.

Should you need further information concerning operations to date, please call me collect at 806/359-0351.

Sincerely,

KERR-McGEE CORPORATION

Larry R. Bell
Engineering Asst.

LRB/sh

Enclosures

Extension granted to Dec. 31, 1978

July 20, 1978

Mr. Larry R. Bell
Engineering Assistant
Southwest District - N.A.
Kerr-McGee Corporation
P.O. Box 250
Amarillo, Texas 79105

Re: Extension of Drilling Permits
for Kerr-McGee Corporation's
Navajo Wells No. 18 & No. 19,
Apache County, Arizona

Dear Larry:

We are extending permits on the above referenced wells
for 90 days from the 28th day of July, 1978.

In the event further extension is necessary, please ad-
vise prior to the expiration date.

Very truly yours,

W. E. Allen
Director
Enforcement Section

WEA/vb



KERR-McGEE CORPORATION

626 AMARILLO PETROLEUM BUILDING
P. O. BOX 250 • AMARILLO, TEXAS 79105

RECEIVED

JUL 20 1978

O & G CONS. COMM.

PHONE
806 376-7256

July 18, 1978

State of Arizona
Oil and Gas Conservation Commission
1645 W. Jefferson, Suite 420
Phoenix, Arizona 85007

RE: Extension of Drilling Permits
for Kerr-McGee Corporation's
Navajo Wells No. 18 & No. 19,
Apache County, Arizona

Attention Mr. W. E. Allen

Dear Mr. Allen:

Thank you for advising us that the permits to drill the above
referenced wells will soon expire.

Kerr-McGee Corporation respectfully requests an extension on
these drilling permits, as drilling operations on the Navajo No.
18 and No. 19 will not begin for several weeks. Also, would you
please advise us as to the length of extension we may expect to
receive on these permits.

We should spud the Navajo No. 22 about July 21, 1978, and we will
begin filing Form 9-331, "Sundry Notices and Reports on Wells",
weekly as operations progress. I will try to have these reports
in the mail every Thursday and hopefully they will reach you by
the following Monday. If they do not reach you by then, please
let me know and I will mail them earlier.

Thank you again. Working with you and your office is always a
pleasure.

Sincerely,

KERR-McGEE CORPORATION

Larry R. Bell

Larry R. Bell
Engineering Assistant
Southwest District - N. A.

LRB/ra

cc: Navajo Tribe-Minerals Department

July 13, 1978

Mr. C. J. Breeden
District Manager-Drilling
Kerr-McGee Corporation
P.O. Box 250
Amarillo, Texas 79105

Re: Kerr-McGee Navajo No. 18	Kerr-McGee Navajo No. 19
NW/4 NE/4 Sec. 32, T36N,	NW/4 NE/4 Sec. 31, T36N,
R30E, Apache County	R30E, Apache County
State Permit No. 690	State Permit No. 691

Dear Mr. Breeden:

This letter is to advise you that the drilling permits issued on the above referenced wells will expire on July 28, 1978 unless the wells have been spudded prior to that date.

Should you wish an extension on these drilling permits, please advise this office, by letter, prior to the expiration date.

Very truly yours,

W. E. Allen
Director
Enforcement Section

WEA/vb

April 28, 1978

Mr. C. J. Breeden
District Manager-Drilling
Kerr-McGee Corporation
P.O. Box 250
Amarillo, Texas 79105

Re: Kerr-McGee Navajo No. 18	Kerr-McGee Navajo No. 19
NW/4 NE/4 Sec. 32, T36N,	NW/4 NE/4 Sec. 31, T36N,
R30E, Apache County	R30E, Apache County
State Permit No. 690	State Permit No. 691

Dear Mr. Breeden:

Attached you will find your approved copies of the applications to drill, the drilling permits, and our receipt No. 1084 in the amount of \$50.00.

It will be appreciated if you will advise me prior to spudding of these wells.

Very truly yours,

W. E. Allen
Director
Enforcement Section

WEA/vb

Enc.

690



KERR-McGEE CORPORATION

626 AMARILLO PETROLEUM BUILDING

P. O. BOX 250 • AMARILLO, TEXAS 79105

RECEIVED

APR 3 1978

O & G CONS. COMM.

PHONE

806 376-7256

March 30, 1978

Oil and Gas Conservation Commission
State of Arizona
1645 West Jefferson, Suite 420
Phoenix, Arizona 85007

Attention: Mr. W. E. Allen

Gentlemen:

Enclosed are two copies of form no. 3, Application for Permit to Drill, two copies of a Registered Surveyors Plat, and a check of \$25.00 for the filing fee for the proposed Kerr-McGee Corporation Navajo No. 19, located 1,980' FEL and 1,020' FNL of Section 31, T36N, R30E, G&SRM Survey, Dineh-Bi-Keyah Field, Apache County, Arizona

Also please accept this as an answer to Mr. Allen's letter of February 28, 1978 concerning the hearing on spacing in this field and if Kerr-McGee was transmitting an application to drill before the hearing.

Sincerely,

KERR-McGEE CORPORATION

C. J. Breeden
District Manager - Drilling
Southwest District - North America

CJB/vs

Enclosures

cc: The Navajo Tribe
Minerals Department
P. O. Box 146
Window Rock, Arizona 86515

DETACH BEFORE DEPOSITING

REMITTANCE ADVICE

KERR - MCGEE CORPORATION
OIL AND GAS DIVISION

81720

C. SHELTON 2506

THE ENDORSEMENT BY PAYEE OF THE DETACHED CHECK CONSTITUTES RECEIPT IN FULL
FOR THE ITEMS LISTED BELOW

DATE		INVOICE NUMBER OR DESCRIPTION	GROSS AMOUNT	DISCOUNT	NET AMOUNT
MO.	DAY		CR.	CR.	
		FILING FEE FOR APPLICATION FOR PERMIT TO DRILL KERR-MCGEE NAVAJO #18, LOCATED 620' FNL AND 2,100' FEL OF SECTION 32, T36N, R30E, APACHE COUNTY, AZ			25 00
			APR 8 1970		
			O & G COMM. COMM.		

O & O COMM. COMM.